

Learning Autodesk Inventor LT 2010

Course Objectives

The primary objective of this course is to provide students with a thorough understanding of the principal 3D design, and documentation processes necessary for developing products using Autodesk Inventor LT.

After completing this course, students will be able to:

- Capture design intent by using the proper techniques and recommended workflows for creating intelligent 3D parametric parts.
- Document designs using base, projected, section, detail, and isometric drawing views.
- Follow drafting standards while dimensioning and annotating drawing views.

Who Should Attend / Prerequisites

This course is designed for new Autodesk Inventor LT users. No previous CAD experience is necessary. However, before taking this course, the student should have a working knowledge of the following:

- Drafting, design, or mechanical engineering principles.
- Microsoft® Windows® Vista or Microsoft® Windows® XP.

Course Outline

Getting Started

- Autodesk Inventor LT User Interface
- View Manipulation
- Designing Parametric Parts

Basic Sketching Techniques

- Creating 2D Sketches
- Geometric Constraints
- Dimensioning Sketches

Basic Shape Design

- Creating Basic Sketched Features
- Intermediate Sketching
- Editing Parametric Parts
- 3D Grip Editing
- Creating Work Features
- Creating Basic Swept Shapes

Basic View Creation

- Drawing Creation Environment
- Base and Projected Views

- Section Views
- Detail Views
- Crop Views
- Managing Views

Dimensions

- Automated Dimensioning Techniques
- Manual Dimensioning Techniques

Detailed Shape Design

- Creating Chamfers and Fillets
- Creating Holes and Threads
- Patterning and Mirroring Features
- Creating Thin-Walled Parts

Basic Sketching Techniques

- iFeatures
- Various Part and Sketch Techniques
- User Coordinate System

Annotations and Tables

- Annotating Holes and Threads
- Creating Centerlines, Symbols, and Leaders
- Revision Tables and Tags

Drawing Standards and Resources

- Setting Drawing Standards
- Drawing Resources

Production Drawings

- Supplemental Drawing View Techniques
- Supplemental Drawing Annotation Techniques

Data and Geometry Translation and Exchange

- Import and Export
- AEC Exchange

Course Duration: 3 Days

Tuition: \$750.00 / Student